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Air Quality Alerts



The bar chart displays the PM10 concentration in μ/m^3 over a 7-day period. The y-axis ranges from 0 to 400 μ/m^3 with major grid lines every 200 units. The x-axis shows time slots from Tuesday 12AM to Sunday 12AM. The data shows a major peak on Tuesday evening (around 10PM-11PM) with concentrations exceeding 400 μ/m^3 . A secondary, smaller peak occurs on Wednesday evening (around 10PM-11PM) with concentrations around 150 μ/m^3 . For the remainder of the week, the concentrations are consistently low, generally below 50 μ/m^3 .

Day/Time	PM10 Concentration (μ/m^3)
Tue 12AM	20
Tue 1AM	30
Tue 2AM	20
Tue 3AM	100
Tue 4AM	150
Tue 5AM	400
Tue 6AM	500
Tue 7AM	450
Tue 8AM	350
Tue 9AM	280
Tue 10AM	200
Tue 11AM	100
Tue 12PM	80
Tue 1PM	50
Tue 2PM	40
Tue 3PM	50
Tue 4PM	60
Tue 5PM	50
Tue 6PM	40
Tue 7PM	50
Tue 8PM	40
Tue 9PM	50
Tue 10PM	150
Tue 11PM	150
Tue 12AM	100
Tue 1PM	80
Tue 2PM	50
Tue 3PM	40
Tue 4PM	50
Tue 5PM	40
Tue 6PM	30
Tue 7PM	40
Tue 8PM	30
Tue 9PM	40
Tue 10PM	30
Tue 11PM	40
Tue 12AM	30
Tue 1PM	20
Tue 2PM	30
Tue 3PM	20
Tue 4PM	30
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10
Tue 9PM	20
Tue 10PM	10
Tue 11PM	20
Tue 12AM	10
Tue 1PM	20
Tue 2PM	10
Tue 3PM	20
Tue 4PM	10
Tue 5PM	20
Tue 6PM	10
Tue 7PM	20
Tue 8PM	10

Pollutant	Tuesday 11/21/2023	Wednesday 11/22/2023	Thursday 11/23/2023	Friday 11/24/2023	Saturday 11/25/2023
PM ₁₀	101	56	40	46	32

PM₁₀ = Particles ≤ 10 microns

The weather pattern will be active over Arizona this week. Today, a low pressure wave will depart to the east, making room for high pressure to move in. This will result in winds out of the east today and Wednesday. Today is expected to be a windy day, with wind speeds up to 25-30 mph, with higher gusts. **A PM₁₀ High Pollution Advisory is in effect for today**, given the potential for high dust levels at the Rillito monitor. PM₁₀ could be elevated on Wednesday, as well.

Then on Thursday, another low pressure wave will swing through the state. This will result in winds shifting to out of the southwest. Thursday and Friday are both expected to be breezy, with Friday seeing winds up to 20+ mph and higher gusts. Elevated PM₁₀ levels will be possible both afternoons.

Then over the weekend, a larger low pressure pattern over the West will bring the next shot of cooler air. High temperatures are forecast to drop into the 60s on Saturday. But winds will weaken to light, which will reduce the dust threat.

Check back tomorrow for the next update!

- M. Graves
ADEQ Meteorologist

Tuesday: Orange

Wednesday: Yellow

